

Cometary Cell C2103

Images

Aerogel Cell: [C2103-01.jpg](#)
[C2103_T1_20x.jpg](#)

Cell History: Cell C2103 was removed from the cometary grid on September 14, 2006.

Track Information: The tile has several small- to medium-sized tracks.

Feature Images

Allocation History

Results

Log Entries

Note: All track / features (e.g., T1) numbers assigned during the Level 3 scanning are to be considered “**Temporary**” and in do not relate to the “Official” track number that is assigned when a given features is extracted (e.g., Keystoned) from a tile. Abbreviations: EH – Entrance Hole, TP – Terminal Particle, MTW – Maximum Track / Bulb Width, TL – Track Length.

November 28, 2006

T.H. See

C2103

10:00 am - Removed Tile C2103 from sample cabinet, determined Level 2 orientation and mounted in Level 3 fixture for scanning.

Checked scope alignment. Adjusted alignment at 16x.

Alignment still a bit off, but acceptable for low magnification scans.

Began Depth Profiles @ 10:40. Completed all seven depth profiles @ 11:20.

Tracks

C2103-TI – (i no 1) First thought to be Track H, I now believe this is a previously undocumented small track. Locate ~2.2 mm from left end and 9.4 mm (Z = Y) from front surface. Type B track measuring ~174 μ m in length. MBW ~40 μ m. EH ~12 μ m. TP present and less than 5 μ m.

C2103–TH – Track H for sure. Located @ 6.7 x 9.9 mm. Type A, long carrot. Track Length is 1.2 mm with MBW ~60 μ m and EH ~18 μ m. TP present and less than 10 μ m, if not 5.

C2103-TE – Track E located at 13.7 x 1.6 mm. Type B track. Length ~1.23 mm with MBW ~254 μ m and EH of 32 μ m. TP ~10 μ m.

C2103-TG – Track G located at 13.9 x 12.4 mm. Type A carrot. Length ~702 μ m, MBW ~32 μ m. TP not obvious but believed to be present.

C2103-TD – Located @ 17.6 x 10.6 mm. Type A carrot. Length is ~4.43 mm with MBW of 192 μm . Nice TP present. **Excellent example of the EH being larger than the throat or track neck that commonly appears below the tile surface. Surface EH measures ~90 μm , while throat measures 35 to 40 μm . TP ~13 x 15 μm .**

C2103-TB – Located 24.7 x 6.4 mm. Type A carrot. EH appears to be ~70 μm . Dark TP 27 x 22 μm in size. **NICE TP**. Very black and euhedral in appearance. Little of any aerogel around TP. TP2 is located on another stylus of the Type A track. Two styli suggest Type C, but this is a nice Type A track with an extract TP/Stylus. TP2 measures ~16 x 22 μm . Overall track length is 5.6 mm, with the second stylus measuring ~4.8 mm in depth.

C2103-TA – Located 29.2 x 2.2 mm. Another example of EH being larger than the track's throat or narrowest area (see C2103-TA_EH image). EH ~213 μm , while throat measures ~160 μm . The track is a Type C without Stylus. Overall length is 1.2 mm with MBW of ~490 μm .

C2103-TC – Located @ 33.7 x 15.3, Type A with two Styli. Overall length ~2.44 mm with Stylus 2 ~1.82 mm. EH is ~31 μm and MBW is ~206 μm . TP1 hard to identify for certain but appears to be ~5 μm . TP 2 not obvious. EH ~50 μm .

Completed track documentation @ 15:00.

Took 7x & 20x Top views after changing light source.

Completed tile and returned to storage cabinet @ ~15:25.